

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Previously presented) A compound comprising uricase covalently bonded via a linking group to polyethylene glycol, wherein the polyethylene glycol has a total weight average molecular weight of about 12,000 to about 30,000, wherein the linking group is selected from the group consisting of a succinimide group, an amide group, an imide group, a carbamate group, an ester group, an epoxy group, a carboxyl group, a hydroxyl group, a carbohydrate, a tyrosine group, a cysteine group, a histidine group and combinations thereof and wherein said uricase comprises 12 to about 30 polyethylene glycol molecules per uricase protein unit.
2. (Previously presented) The compound of claim 1, wherein said linking group is a succinimide group.
3. (Previously presented) The compound of claim 2, wherein said succinimide group is succinimidyl succinate, succinimidyl propionate, succinimidyl carboxymethylate, succinimidyl succinamide, N-hydroxy succinimide or combinations thereof.
4. (Previously presented) The compound of claim 3, wherein said succinimide group is succinimidyl succinate, succinimidyl propionate or combinations thereof.
5. (Previously presented) The compound of claim 1, wherein said uricase is derived from a microorganism selected from the group consisting of *Asperigillus flavus*, *Candida utilis*, *Arthrobacter protoformiae*, and combinations thereof.
6. (Previously presented) The compound of claim 5, wherein said microorganism is *Asperigillus flavus*.

7. (Previously presented) The compound of claim 5, wherein said microorganism is *Candida utilis*.
8. (Previously presented) The compound of claim 5, wherein said microorganism is *Arthrobacter protoformiae*.
9. (Previously presented) The compound of claim 1 wherein the polyethylene glycol has an average molecular weight of about 20,000.
10. (Previously presented) The compound of claim 1 wherein said uricase protein unit is covalently bonded to 12 to about 25 polyethylene glycol molecules.
11. (Previously presented) The compound of claim 1, wherein said uricase protein unit is covalently bonded to about 18 to about 22 polyethylene glycol molecules.
12. (Previously presented) The compound of claim 1, wherein said uricase protein unit is covalently bonded to about 20 polyethylene glycol molecules.
13. – 20. (Canceled)
21. (Previously presented) The compound of claim 1 wherein polyethylene glycol is covalently attached to said uricase protein unit at one or more lysine residues.
22. (Previously presented) A method of enhancing the circulating half life of uricase comprising modifying said uricase by covalently bonding said uricase via a linking group to polyethylene glycol, wherein the polyethylene glycol has a total weight average molecular weight of about 12,000 to about 30,000, wherein said uricase comprises 12 to 30 polyethylene glycol molecules per uricase protein unit, and wherein the linking group is

selected from the group consisting of a succinimide group, an amide group, an imide group, a carbamate group, an ester group, an epoxy group, a carboxyl group, a hydroxyl group, a carbohydrate, a tyrosine group, a cysteine group, a histidine group and combinations thereof.

23. (Previously presented) The method of claim 22 wherein the polyethylene glycol has an average molecular weight of about 20,000.

24. (Previously presented) The method of claim 22, wherein said uricase protein unit is covalently bonded to 12 to about 25 polyethylene glycol molecules.

25. (Previously presented) The method of claim 22, wherein said uricase protein unit is covalently bonded to about 18 to about 22 polyethylene glycol molecules.

26. – 30. (Canceled)

31. (Previously presented) A method of reducing uric acid levels in a patient comprising administering to said patient a therapeutically effective amount of the compound of claim 1.

32. (Currently amended) The method of claim 31, wherein said patient has ~~hypouricemia~~ hyperuricemia.

33. (Previously presented) The method of claim 31, wherein said polyethylene glycol has an average molecular weight of about 20,000

34. (Previously presented) The method of claim 31, wherein said linking group is a succinimide group.

35. (Previously presented) The method of claim 32, wherein said succinimide group is succinimidyl succinate, succinimidyl propionate, succinimidyl carboxymethylate, succinimidyl succinamide, N-hydroxy succinimide or combinations thereof.

36. (Previously presented) A method of treating uric acid related disorders in a patient comprising administering to said patient a therapeutically effective amount of the compound of claim 1.

37. (Previously presented) The method of claim 36, wherein said polyethylene glycol has an average molecular weight of about 20,000

38. (Canceled)

39. (Previously presented) A compound comprising uricase coupled to polyethylene glycol, wherein the polyethylene glycol has a total weight average molecular weight of about 12,000 to about 30,000 and wherein said uricase comprises 12 to about 30 polyethylene glycol molecules per uricase protein unit.

40. (Previously presented) The compound of claim 39 wherein the polyethylene glycol has an average molecular weight of about 20,000.

41. (Previously presented) The compound of claim 39, wherein said uricase protein unit is covalently bonded to 12 to about 25 polyethylene glycol molecules.

42. (Previously presented) The compound of claim 39, wherein said uricase protein unit is covalently bonded to about 18 to about 22 polyethylene glycol molecules.

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43. (Previously presented) The compound of claim 39, wherein said uricase protein unit is coupled to about 20 polyethylene glycol molecules.

44. – 47. (Canceled)